



**TANGO**  
Device  
Server

# **PowerSupplyLT1**

## **User's Guide**

### **PhoenixInlineLT1 Class**

**Revision: release\_1\_0\_2 - Author: coquet**  
**Implemented in C++**

## **Introduction:**

pilote l'alimentation LT1 composee de 1 dipole 7 qpoles 12 correcteurs

## **Class Inheritance:**

- Tango::Device\_3Impl
  - PhoenixInlineLT1

## **Properties:**

## Device Properties

Property name	Property type	Description
<b>ProfibusServerName</b>	Tango::DEV_STRING	Tango name of the Profibus DeviceServer Serveur ProfibusServer avec gestion d'abonnement Default : Tango/Profibus/1
<b>BoardNumber</b>	Tango::DEV_LONG	number of the Profibus DP Hilsher card ( from 0 to 3 ) default : 0
<b>DPAddress</b>	Tango::DEV_LONG	Pour l'esclave portant les alimentations principales DP Address of the power supply from 1 to 125 DO NOT USE 0 , 126,127 reserved for the system! Default : 3
<b>Group</b>	Tango::DEV_LONG	Pour l'esclave portant les correcteurs groupe de sync/freeze parametre de 1 to 8. Default : 1
<b>InputOffset</b>	Tango::DEV_LONG	Pour l'esclave portant les alimentations correcteurs Memory offset of input data ( seen by the master ) offset mémoire des entrées de l'esclave tel que défini dans le configurateur Profibus
<b>InputLength</b>	Tango::DEV_LONG	Pour l'esclave portant les alimentations correcteur length in bytes of input data taille en octets de la totalité des entrées de l'esclave tel que défini dans le configurateur Profibus Ces données doivent être consécutives.
<b>OutputOffset</b>	Tango::DEV_LONG	Pour l'esclave portant les alimentations correcteur Memory offset of output data ( seen by the master ) offset mémoire des sorties de l'esclave tel que défini dans le configurateur Profibus
<b>OutputLength</b>	Tango::DEV_LONG	Pour l'esclave portant les alimentations correcteur length in bytes of output data taille en octets de la totalité des sorties de l'esclave tel que défini dans le configurateur Profibus Ces données doivent être consécutives.

### Device Properties Default Values:

Property Name	Default Values
ProfibusServerName	No default value
BoardNumber	No default value
DPAddress	No default value
Group	No default value
InputOffset	No default value
InputLength	No default value
OutputOffset	No default value
OutputLength	No default value

**There is no Class properties.**

## States:

<b>States</b>	
<b>Names</b>	<b>Descriptions</b>
<b>ON</b>	
<b>OFF</b>	
<b>FAULT</b>	
<b>ALARM</b>	
<b>UNKNOWN</b>	

## Attributes:

<b>Scalar Attributes</b>			
<b>Attribute name</b>	<b>Data Type</b>	<b>R/W Type</b>	<b>Expert</b>
<b>generalStatus:</b> general status of all 12 Power supplies bit 0 : READY bit 1 : ON	DEV_SHORT	READ	No

## Commands:

More Details on commands...

<b>Device Commands for Operator Level</b>		
<b>Command name</b>	<b>Argument In</b>	<b>Argument Out</b>
<b>Init</b>	DEV_VOID	DEV_VOID
<b>State</b>	DEV_VOID	DEV_STATE
<b>Status</b>	DEV_VOID	CONST_DEV_STRING
<b>GetCorrecteurInputs</b>	DEV_LONG	DEVVAR_LONGARRAY
<b>SetCurrent</b>	DEVVAR_LONGARRAY	DEV_VOID
<b>On</b>	DEV_VOID	DEV_VOID
<b>Off</b>	DEV_VOID	DEV_VOID

# 1 - Init

- **Description:** This commands re-initialise a device keeping the same network connection.  
After an Init command executed on a device, it is not necessary for client to re-connect to the device.  
This command first calls the device *delete\_device()* method and then execute its *init\_device()* method.  
For C++ device server, all the memory allocated in the *nit\_device()* method must be freed in the *delete\_device()* method.  
The language device desctructor automatically calls the *delete\_device()* method.
- **Argin:**  
**DEV\_VOID** : none.
- **Argout:**  
**DEV\_VOID** : none.
- **Command allowed for:**
  - Tango::ON
  - Tango::OFF
  - Tango::FAULT
  - Tango::ALARM
  - Tango::UNKNOWN

# 2 - State

- **Description:** This command gets the device state (stored in its *device\_state* data member) and returns it to the caller.
- **Argin:**  
**DEV\_VOID** : none.
- **Argout:**  
**DEV\_STATE** : State Code
- **Command allowed for:**
  - Tango::ON
  - Tango::OFF
  - Tango::FAULT
  - Tango::ALARM
  - Tango::UNKNOWN

# 3 - Status

- **Description:** This command gets the device status (stored in its *device\_status* data member) and returns it to the caller.
- **Argin:**  
**DEV\_VOID** : none.
- **Argout:**  
**CONST\_DEV\_STRING** : Status description
- **Command allowed for:**
  - Tango::ON
  - Tango::OFF
  - Tango::FAULT

- Tango::ALARM
- Tango::UNKNOWN

## 4 - GetCorrecteurInputs

- **Description:**
- **Argin:**  
DEV\_LONG : le numero de correcteur de 1 a 12
- **Argout:**  
DEVVAR\_LONGARRAY : 0=general status, 1=current, 2=voltage, 3=setpoint readback
- **Command allowed for:**
  - Tango::ON
  - Tango::OFF
  - Tango::FAULT
  - Tango::ALARM
  - Tango::UNKNOWN

## 5 - SetCurrent

- **Description:**
- **Argin:**  
DEVVAR\_LONGARRAY : numero de port, consigne brute a ecrire ecrire
- **Argout:**  
DEV\_VOID :
- **Command allowed for:**
  - Tango::ON
  - Tango::OFF
  - Tango::FAULT
  - Tango::ALARM
  - Tango::UNKNOWN

## 6 - On

- **Description:**
- **Argin:**  
DEV\_VOID :
- **Argout:**  
DEV\_VOID :
- **Command allowed for:**
  - Tango::ON
  - Tango::OFF
  - Tango::FAULT
  - Tango::ALARM
  - Tango::UNKNOWN

## 7 - Off

- **Description:**
- **Argin:**  
DEV\_VOID :
- **Argout:**  
DEV\_VOID :
- **Command allowed for:**
  - Tango::ON
  - Tango::OFF
  - Tango::FAULT
  - Tango::ALARM
  - Tango::UNKNOWN

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# **PowerSupplyLT1**

## **User's Guide**

### **PhoenixInlineLT1 Class**

**Revision: release\_1\_0\_2 - Author: coquet**  
**Implemented in C++**

## **Introduction:**

pilote l'alimentation LT1 composee de 1 dipole 7 qpoles 12 correcteurs

## **Class Inheritance:**

- Tango::Device\_3Impl
  - PhoenixInlineLT1

## **Properties:**

## Device Properties

Property name	Property type	Description
<b>ProfibusServerName</b>	Tango::DEV_STRING	Tango name of the Profibus DeviceServer Serveur ProfibusServer avec gestion d'abonnement Default : Tango/Profibus/1
<b>BoardNumber</b>	Tango::DEV_LONG	number of the Profibus DP Hilsher card ( from 0 to 3 ) default : 0
<b>DPAddress</b>	Tango::DEV_LONG	Pour l'esclave portant les alimentations principales DP Address of the power supply from 1 to 125 DO NOT USE 0 , 126,127 reserved for the system! Default : 3
<b>Group</b>	Tango::DEV_LONG	Pour l'esclave portant les correcteurs groupe de sync/freeze parametre de 1 to 8. Default : 1
<b>InputOffset</b>	Tango::DEV_LONG	Pour l'esclave portant les alimentations correcteurs Memory offset of input data ( seen by the master ) offset mémoire des entrées de l'esclave tel que défini dans le configurateur Profibus
<b>InputLength</b>	Tango::DEV_LONG	Pour l'esclave portant les alimentations correcteur length in bytes of input data taille en octets de la totalité des entrées de l'esclave tel que défini dans le configurateur Profibus Ces données doivent être consécutives.
<b>OutputOffset</b>	Tango::DEV_LONG	Pour l'esclave portant les alimentations correcteur Memory offset of output data ( seen by the master ) offset mémoire des sorties de l'esclave tel que défini dans le configurateur Profibus
<b>OutputLength</b>	Tango::DEV_LONG	Pour l'esclave portant les alimentations correcteur length in bytes of output data taille en octets de la totalité des sorties de l'esclave tel que défini dans le configurateur Profibus Ces données doivent être consécutives.

### Device Properties Default Values:

Property Name	Default Values
ProfibusServerName	No default value
BoardNumber	No default value
DPAddress	No default value
Group	No default value
InputOffset	No default value
InputLength	No default value
OutputOffset	No default value
OutputLength	No default value

**There is no Class properties.**



## States:

<b>States</b>	
<b>Names</b>	<b>Descriptions</b>
<b>ON</b>	
<b>OFF</b>	
<b>FAULT</b>	
<b>ALARM</b>	
<b>UNKNOWN</b>	

## Attributes:

<b>Scalar Attributes</b>			
<b>Attribute name</b>	<b>Data Type</b>	<b>R/W Type</b>	<b>Expert</b>
<b>generalStatus:</b> general status of all 12 Power supplies bit 0 : READY bit 1 : ON	DEV_SHORT	READ	No

## Commands:

More Details on commands....

<b>Device Commands for Operator Level</b>		
<b>Command name</b>	<b>Argument In</b>	<b>Argument Out</b>
<b>Init</b>	DEV_VOID	DEV_VOID
<b>State</b>	DEV_VOID	DEV_STATE
<b>Status</b>	DEV_VOID	CONST_DEV_STRING
<b>GetCorrecteurInputs</b>	DEV_LONG	DEVVAR_LONGARRAY
<b>SetCurrent</b>	DEVVAR_LONGARRAY	DEV_VOID
<b>On</b>	DEV_VOID	DEV_VOID
<b>Off</b>	DEV_VOID	DEV_VOID

# 1 - Init

- **Description:** This commands re-initialise a device keeping the same network connection.  
After an Init command executed on a device, it is not necessary for client to re-connect to the device.  
This command first calls the device *delete\_device()* method and then execute its *init\_device()* method.  
For C++ device server, all the memory allocated in the *nit\_device()* method must be freed in the *delete\_device()* method.  
The language device desctructor automatically calls the *delete\_device()* method.
- **Argin:**  
**DEV\_VOID** : none.
- **Argout:**  
**DEV\_VOID** : none.
- **Command allowed for:**
  - Tango::ON
  - Tango::OFF
  - Tango::FAULT
  - Tango::ALARM
  - Tango::UNKNOWN

# 2 - State

- **Description:** This command gets the device state (stored in its *device\_state* data member) and returns it to the caller.
- **Argin:**  
**DEV\_VOID** : none.
- **Argout:**  
**DEV\_STATE** : State Code
- **Command allowed for:**
  - Tango::ON
  - Tango::OFF
  - Tango::FAULT
  - Tango::ALARM
  - Tango::UNKNOWN

# 3 - Status

- **Description:** This command gets the device status (stored in its *device\_status* data member) and returns it to the caller.
- **Argin:**  
**DEV\_VOID** : none.
- **Argout:**  
**CONST\_DEV\_STRING** : Status description
- **Command allowed for:**
  - Tango::ON
  - Tango::OFF
  - Tango::FAULT

- Tango::ALARM
- Tango::UNKNOWN

## 4 - GetCorrecteurInputs

- **Description:**
- **Argin:**  
DEV\_LONG : le numero de correcteur de 1 a 12
- **Argout:**  
DEVVAR\_LONGARRAY : 0=general status, 1=current, 2=voltage, 3=setpoint readback
- **Command allowed for:**
  - Tango::ON
  - Tango::OFF
  - Tango::FAULT
  - Tango::ALARM
  - Tango::UNKNOWN

## 5 - SetCurrent

- **Description:**
- **Argin:**  
DEVVAR\_LONGARRAY : numero de port, consigne brute a ecrire ecrire
- **Argout:**  
DEV\_VOID :
- **Command allowed for:**
  - Tango::ON
  - Tango::OFF
  - Tango::FAULT
  - Tango::ALARM
  - Tango::UNKNOWN

## 6 - On

- **Description:**
- **Argin:**  
DEV\_VOID :
- **Argout:**  
DEV\_VOID :
- **Command allowed for:**
  - Tango::ON
  - Tango::OFF
  - Tango::FAULT
  - Tango::ALARM
  - Tango::UNKNOWN

## 7 - Off

- **Description:**
- **Argin:**  
DEV\_VOID :
- **Argout:**  
DEV\_VOID :
- **Command allowed for:**
  - Tango::ON
  - Tango::OFF
  - Tango::FAULT
  - Tango::ALARM
  - Tango::UNKNOWN

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TANGO  
Device  
Server

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# PowerSupplyLT1

## Device Commands Description

### PhoenixInlineLT1 Class

Revision: release\_1\_0\_2 - Author: coquet

## 1 - Init

- **Description:** This commands re-initialise a device keeping the same network connection. After an Init command executed on a device, it is not necessary for client to re-connect to the device.  
This command first calls the device *delete\_device()* method and then execute its *init\_device()* method.  
For C++ device server, all the memory allocated in the *init\_device()* method must be freed in the *delete\_device()* method.  
The language device desctructor automatically calls the *delete\_device()* method.
- **Argin:**  
**DEV\_VOID** : none.
- **Argout:**  
**DEV\_VOID** : none.
- **Command allowed for:**
  - Tango::ON
  - Tango::OFF
  - Tango::FAULT
  - Tango::ALARM
  - Tango::UNKNOWN

## 2 - State

- **Description:** This command gets the device state (stored in its *device\_state* data member) and returns it to the caller.
- **Argin:**  
**DEV\_VOID** : none.

- **Argout:**  
**DEV\_STATE** : State Code

- **Command allowed for:**
  - Tango::ON
  - Tango::OFF
  - Tango::FAULT
  - Tango::ALARM
  - Tango::UNKNOWN

### 3 - Status

- **Description:** This command gets the device status (stored in its *device\_status* data member) and returns it to the caller.
- **Argin:**  
**DEV\_VOID** : none.
- **Argout:**  
**CONST\_DEV\_STRING** : Status description
- **Command allowed for:**
  - Tango::ON
  - Tango::OFF
  - Tango::FAULT
  - Tango::ALARM
  - Tango::UNKNOWN

### 4 - GetCorrecteurInputs

- **Description:**
- **Argin:**  
**DEV\_LONG** : le numero de correcteur de 1 a 12
- **Argout:**  
**DEVVAR\_LONGARRAY** : 0=general status, 1=current, 2=voltage, 3=setpoint readback
- **Command allowed for:**
  - Tango::ON
  - Tango::OFF
  - Tango::FAULT
  - Tango::ALARM
  - Tango::UNKNOWN

## 5 - SetCurrent

- **Description:**
- **Argin:**  
DEVVAR\_LONGARRAY : numero de port, consigne brute a ecrire ecrire
- **Argout:**  
DEV\_VOID :
- **Command allowed for:**
  - Tango::ON
  - Tango::OFF
  - Tango::FAULT
  - Tango::ALARM
  - Tango::UNKNOWN

## 6 - On

- **Description:**
- **Argin:**  
DEV\_VOID :
- **Argout:**  
DEV\_VOID :
- **Command allowed for:**
  - Tango::ON
  - Tango::OFF
  - Tango::FAULT
  - Tango::ALARM
  - Tango::UNKNOWN

## 7 - Off

- **Description:**
- **Argin:**  
DEV\_VOID :
- **Argout:**  
DEV\_VOID :
- **Command allowed for:**
  - Tango::ON



- Tango::OFF
- Tango::FAULT
- Tango::ALARM
- Tango::UNKNOWN

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